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region light emissive layer is a light emissive material having the persistence characteristics allowing radiation for 0.1 msec or more.

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6. (Amended) The plasma display panel according to any one of claims 52 to 56, further comprising a light absorption layer provided at each position opposing a non-lighting area between the unit light emitting areas adjacent to each other in the row direction or the column direction of the front substrate, and opposite the back substrate in relation to said ultraviolet region light emissive layer.

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13. (Amended) The plasma display panel according to any one of claims 57 and 58, further comprising:

a partition wall provided between the front substrate and the back substrate for partitioning the discharge space into the unit light emitting areas, and

wherein said secondary electron emissive layer is provided on a side wall-face of the partition wall.

14. (Amended) The plasma display panel according to any one of claims 57 and 58, further comprising a partition wall disposed between the front substrate and the back substrate for partitioning the discharge space into the unit light emitting areas, and containing the material having a coefficient of secondary electron emission higher than that of the dielectrics forming said protective dielectric layer to be formed in combination with said secondary electron emissive layer.

15. (Amended) The plasma display panel according to any one of claims 57 and 58, wherein said secondary electron emissive layer is placed between the back substrate and the phosphor layer.

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19. (Amended) The plasma display panel according to any one of claims 59 and 60, wherein said phosphor layer contains the ultraviolet region light emitting phosphor to be formed in combination with said ultraviolet region light emissive layer.

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21. (Amended) The plasma display panel according to any one of claims 59 and 60, wherein the ultraviolet region light emitting phosphor forming said ultraviolet region light emissive layer or the visible region light emitting phosphor forming said visible region light emissive layer is a light emissive material having persistence characteristics allowing radiation for 0.1 msec or more.

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27. (Amended) The plasma display panel according to any one of claims 59 and 60, wherein a light absorption layer is provided at a position opposing a non-lighting area between the unit light emitting areas adjacent to each other in the row direction or the column direction of the front substrate, and opposite the back substrate in relation to said ultraviolet region light emissive layer or said visible region light emissive layer.

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32. (Amended) The plasma display panel according to claim 67, further comprising an additional portion provided at a portion of the dielectric layer, opposing said transverse wall of said partition wall and said interstice, and protruding toward the transverse wall.

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34. (Amended) The plasma display panel according to claim 67, wherein said communication element is provided in said transverse wall of said partition wall.

35. (Amended) The plasma display panel according to any one of claims 66 to 71, wherein a light absorption layer is provided at a portion of the dielectric layer opposing said interstice.

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36. (Amended) The plasma display panel according to claim 67, wherein said transverse walls of said partition wall on the front substrate side respectively have higher parts in height than said vertical wall to form a groove between the adjacent higher parts for constructing said communication element.

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41. (Amended) The plasma display panel according to claim 68, further comprising a light absorption layer provided at a portion of the dielectric layer opposing said priming particle generating member.

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44. (Amended) The plasma display panel according to claim 69, wherein said priming particle generating member includes a material having a work function smaller than that of dielectrics forming the protective dielectric layer.

45. (Amended) The plasma display panel according to claim 67, wherein said transverse walls of said partition wall on the front substrate side have respectively higher parts in height than said vertical wall, to form a groove between the adjacent higher parts, and said priming particle generating member is disposed in the groove.

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49. (Amended) The plasma display panel according to any one of claims 66 to 68, wherein said priming particle generating member includes a material having a work function of 4.2 eV or less.

50. (Amended) The plasma display panel according to claim 69, wherein said priming particle generating member is formed of an ultraviolet region light emissive material or a visible region light emissive material having persistence characteristics allowing emission for 0.1 msec or more.

Please add new claims 52-71 as follows:

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52. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising;

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate;

wherein said priming particle generating member is made up of an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength, and

wherein said ultraviolet region light emissive layer extends in the row direction at each site opposing the row electrode pairs, and faces toward the discharge space of the unit light emitting areas adjacent to each other in the column direction.

53. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column

direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection, with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

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a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate;

wherein said priming particle generating member is made up of an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength, and

wherein said ultraviolet region light emissive layer extends in column direction at each site between the unit light emitting areas adjacent to each other in the row direction, and faces toward the discharge space of the unit light emitting areas adjacent to each other in the row direction.

54. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

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a partition wall disposed between the front substrate and the back substrate, and including transverse walls extending in the row direction and vertical walls extending in the column direction to partition the discharge space into the unit light emitting areas wherein said priming particle generating member is made up of an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength, and wherein said ultraviolet region light emissive layer is provided between the front substrate and the transverse wall of the partition wall.

55. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

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a partition wall disposed between the front substrate and the back substrate, and including transverse walls extending in the row direction and vertical walls extending in the column direction to partition the discharge space into the unit light emitting areas;

wherein said priming particle generating member is made up of an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength, and

wherein said ultraviolet region light emissive layer is provided between the front substrate and the vertical wall of the partition wall.

56. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

a stripe patterned partition wall disposed between the front substrate and the back substrate and extending in the column direction to partition the discharge space into the unit light emitting areas aligned in the column direction

wherein said priming particle generating member is made up of an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength,

wherein a row electrode of each of said row electrode pair includes a main body extending in the row direction and a protruding portion protruding from the main body in the column direction in each unit light emitting area, and

wherein said ultraviolet region light emissive layer extends in the row direction at each position opposing the main bodies of the row electrodes.

57. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form, a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate;

wherein said priming particle generating member is made up of a secondary electron emissive layer formed of a material having a coefficient of secondary electron emission higher than that of dielectrics forming said protective dielectric layer, and

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wherein said phosphor layer contains the material, having a coefficient of secondary electron emission higher than that of the dielectrics forming said protective dielectric layer, to be formed in combination with said secondary electron emissive layer.

58. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

a dielectric layer overlaying column electrodes between the back substrate and the phosphor layer;

wherein said priming particle generating member is made up of a secondary electron emissive layer formed of a material having a coefficient of secondary electron emission higher than that of dielectrics forming said protective dielectric layer, and

wherein said dielectric layer containing the material, having a coefficient of secondary electron emission higher than that of the dielectrics forming said protective

dielectric layer, to be formed in combination with said secondary electron emissive layer.

59. (New) A plasma display panel including a. front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate

wherein said priming particle generating member includes a secondary electron emissive layer formed of a material having a high coefficient of secondary electron emission, and, an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength or a visible region light emissive layer formed of a visible region light emitting phosphor having persistence characteristics allowing continuous radiation of visible light as a result of excitation by ultraviolet rays having a predetermined wavelength, and

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wherein said ultraviolet region light emissive layer or said visible region light emissive layer contains the material having a high coefficient of secondary electron emission, to be formed in combination with said secondary electron emissive layer.

60. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate

wherein said priming particle generating member includes a secondary electron emissive layer formed of a material having a high coefficient of secondary electron emission, and, an ultraviolet region light emissive layer formed of an ultraviolet region light emitting phosphor having persistence characteristics allowing continuous radiation of ultraviolet light as a result of excitation by ultraviolet rays having a predetermined wavelength or a visible region light emissive layer formed of a visible region light emitting phosphor having persistence characteristics allowing continuous radiation of visible light as a result of excitation by ultraviolet rays having a predetermined wavelength, and

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wherein said phosphor layer contains the ultraviolet region light emitting phosphor and the material having a high coefficient of secondary electron emission, to be formed in combination with said ultraviolet region light emissive layer and said secondary electron emissive layer.

61. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate;

wherein said priming particle generating member extends in the row direction at a site opposing the row electrode pairs, and faces toward the discharge space of the adjacent unit light emitting areas in the column direction.

62. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column

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direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a pruning particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate;

wherein said priming particle generating member extends in the column direction at a site between the unit light emitting areas adjacent to each other in the row direction, and faces toward the discharge space of the adjacent unit light emitting areas in the row direction.

63. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

a partition wall disposed between the front substrate and the back substrate and including transverse walls extending in the row direction axed vertical walls extending in

the column direction to partition the discharge space into the unit light emitting areas wherein said priming particle generating member is provided between the front substrate and the transverse wall of the partition wall.

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64. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

a priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

a partition wall disposed between the front substrate and the back substrate and including transverse walls extending in the row direction and vertical walls extending in the column direction to partition the discharge space into the unit light emitting areas;

wherein said priming particle generating member is provided between the front substrate and the vertical wall of the partition wall.

65. (New) A plasma display panel including a front substrate and a back substrate on opposite sides of a discharge space, a plurality of row electrode pairs extending in a row direction and arranged in a column direction on the front substrate to form display lines, a protective dielectric layer provided on a face of the front substrate

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facing the discharge space, a plurality of column electrodes extending in the column direction and arranged in the row direction on the back substrate to form a unit light emitting area in the discharge space at each intersection with the row electrode pair, and a phosphor layer on a face of the back substrate facing the discharge space, said plasma display panel comprising:

priming particle generating member provided at a site facing each unit light emitting area between the front substrate and the back substrate, and

a stripe patterned partition wall disposed between the front substrate and the back substrate and extending in the column direction for partitioning the discharge space into the unit light emitting areas aligned in the row direction;

wherein said priming particle generating member extends in the row direction at a site opposing main bodies of row electrodes of the row electrode pairs.

66. (New) A plasma display panel including a front substrate, a back substrate, a plurality of row electrode pairs arranged in a column direction and extending in a row direction to form display lines on a back face of the front substrate, a dielectric layer overlaying the row electrode pairs on the back face of the front substrate, a protective dielectric layer overlaying the dielectric layer on the back face of the front substrate, and a plurality of column electrodes arranged in the row direction on a face of the back substrate opposing the front substrate with a discharge space between, and extending in the column direction to form unit light emitting areas in the discharge space at each intersection of the row electrode pairs and the column electrodes, said plasma display panel comprising:

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a priming particle generating member provided in contact with the discharge space between the adjacent unit light emitting areas in the column direction or the row direction;

wherein said priming particle generating member is formed of an ultraviolet region light emissive material or a visible region light emissive material having persistence characteristics allowing emission for 0.1 msec or more, and includes a material having a work function smaller than that of dielectrics forming the protective dielectric layer.

67. (New) A plasma display panel including a front substrate, a back substrate, a plurality of row electrode pairs arranged in a column direction and extending in a row direction to form display lines on a back face of the front substrate, a dielectric layer overlaying the row electrode pairs on the back face of the front substrate, a protective dielectric layer overlaying the dielectric layer on the back face of the front substrate, and a plurality of column electrodes arranged in the row direction on a face of the back substrate opposing the front substrate with a discharge space between, and extending in the column direction to form unit light emitting areas in the discharge space at each intersection of the row electrode pairs and the column electrodes, said plasma display panel comprising:

a priming particle generating member provided in contact with the discharge space between the adjacent unit light emitting areas in the column direction or the row direction;

a partition wall disposed between the front substrate and the back substrate and including vertical walls extending in the column direction and transverse walls extending

in the row direction to define the discharge space into the unit light emitting areas in the row direction and in the column direction, said transverse wall between the unit light emitting areas to each other in the column direction being divided,

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an interstice extending in parallel to the row direction and provided between the divided transverse walls to space the divided transverse walls from each other, and

a communication element provided for communication between the interior of said interstice and the interior of the discharge spaces of the unit light emitting areas adjacent to said interstice in the column direction wherein said priming particle generating member is placed in said interstice.

68. (New) A plasma display panel including a front substrate, a back substrate, a plurality of row electrode pairs arranged in a column direction and extending in a row direction to form display lines on a back face of the front substrate, a dielectric layer overlaying the row electrode pairs on the back face of the front substrate, a protective dielectric layer overlaying the dielectric layer on the back face of the front substrate, and a plurality of column electrodes arranged in the row direction on a face of the back substrate opposing the front substrate with a discharge space between, and extending in the column direction to form unit light emitting areas in the discharge space at each intersection of the row electrode pairs and the column electrodes, said plasma display panel comprising:

a priming particle generating member provided in contact with the discharge space between the adjacent unit light emitting areas in the column direction or the row direction, and

an additional portion provided at a portion of the dielectric layer opposing the border between the unit light emitting areas adjacent to each other in the column direction, and jutting toward the interior of the discharge space

wherein said priming particle generating member is disposed on a portion of said additional portion facing the discharge space.

69. (New) A plasma display panel including a front substrate, a back substrate, a plurality of row electrode pairs arranged in a column direction and extending in a row direction to form display lines on a back face of the front substrate, a dielectric layer overlaying the row electrode pairs on the back face of the front substrate, a protective dielectric layer overlaying the dielectric layer on the back face of the front substrate, and a plurality of column electrodes arranged in the row direction on a face of the back substrate opposing the front substrate with a discharge space between, and extending in the column direction to form unit light emitting areas in the discharge space at each intersection of the row electrode pairs and the column electrodes, said plasma display panel comprising:

a priming particle generating member provided in contact with the discharge space between the adjacent unit light emitting areas in the column direction or the row direction, and

a partition wall disposed between the front substrate and the back substrate, and defining the border between the unit light emitting areas adjacent to each other at least in the row direction;

wherein said priming particle generating member is placed on a front face of the partition wall opposing the front substrate and faces the discharge space, and is formed

of an ultraviolet region light emissive material or a visible region light emissive material having persistence characteristics allowing emission for 0.1 msec or more.

70. (New) A plasma display panel including a front substrate, a back substrate, a plurality of row electrode pairs arranged in a column direction and extending in a row direction to form display lines on a back face of the front substrate, a dielectric layer overlaying the row electrode pairs on the back face of the front substrate, a protective dielectric layer overlaying the dielectric layer on the back face of the front substrate, and a plurality of column electrodes arranged in the row direction on a face of the back substrate opposing the front substrate with a discharge space between, and extending in the column direction to form unit light emitting areas in the discharge space at each intersection of the row electrode pairs and the column electrodes, said plasma display panel comprising:

a priming particle generating member provided in contact with the discharge space between the adjacent unit light emitting areas in the column direction or the row direction;

wherein the discharge space is filled with a discharge gas including a mixed inert gas containing 10% or more of a xenon gas.

71. (New) A plasma display panel including a front substrate, a back substrate, a plurality of row electrode pairs arranged in a column direction and extending in a row direction to form display lines on a back face of the front substrate, a dielectric layer overlaying the row electrode pairs on the back face of the front substrate, a protective dielectric layer overlaying the dielectric layer on the back face of the front substrate, and a plurality of column electrodes arranged in the row direction on a face of

the back substrate opposing the front substrate with a discharge space between, and extending in the column direction to form unit light emitting areas in the discharge space at each intersection of the row electrode pairs and the column electrodes, said plasma

display panel comprising:

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a priming particle generating member provided in contact with the discharge space between the adjacent unit light emitting areas in the column direction or the row direction;

wherein said priming particle generating member is formed of an ultraviolet region light emissive material or a visible region light emissive material having persistence characteristics allowing emission for 0.1 msec or more, and includes a material having a work function of 4.2 eV or less.

A marked-up version of the amended claims is enclosed as required by 37 C.F.R. § 1.121.

REMARKS

The Office Action dated November 20, 2002 has been received and carefully noted. The above amendments and the following remarks are submitted as a full and complete response thereto. By this Amendment, claims 1-2, 4-5, 7-12, 16-18, 20, 22-26 28-31, 40, 42-43 and 48 have been cancelled. Cancelled claims 4-5, 7-9, 12, 16, 18, 20, 22-26, 30-31, 40, 43 and 48 have been written into independent form as newly added claims 52-70 respectively. The subject matter of claims 28-29 and 49 has been incorporated into added claim 71. Claims 3 and 6 have been amended to depend from newly added independent claims 52-56. Claims 13-15 have been amended to depend from newly added independent claims 57-58. Claims 19, 21 and 27 have been